

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317794

Luminaire Tested: **GAN-SA0A-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47161 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

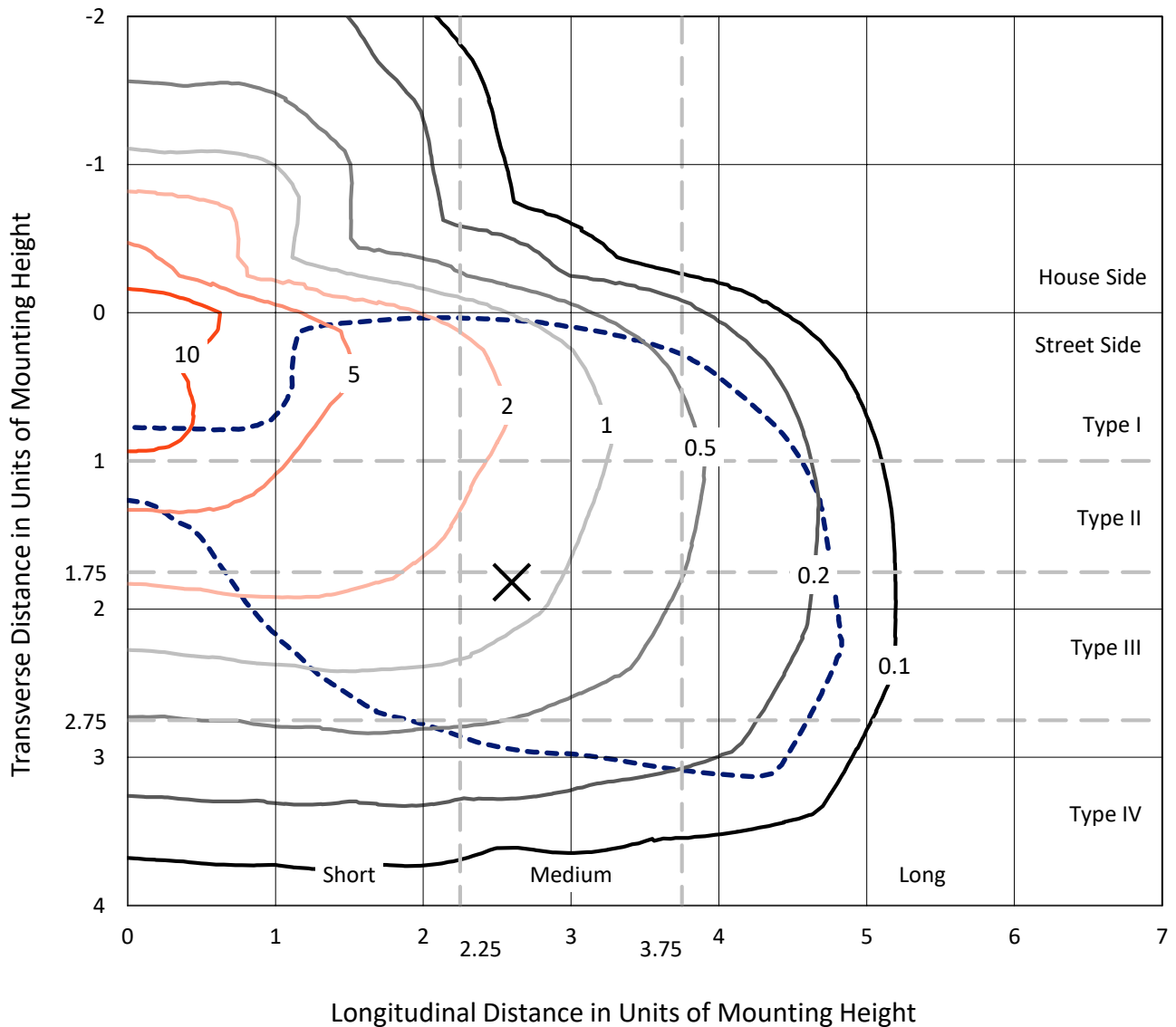
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

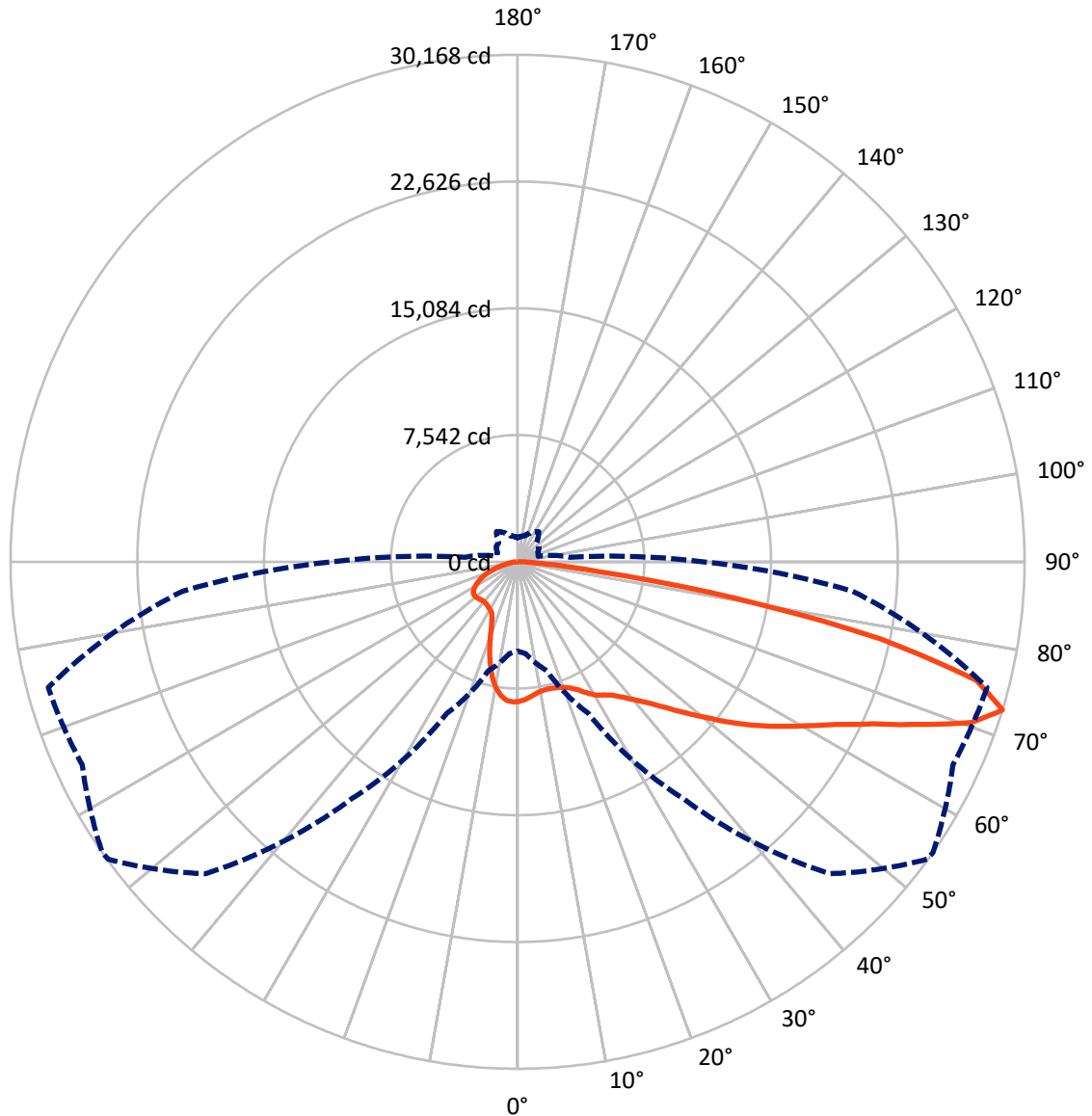
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GAN-SA0A-750-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8765.7	0.0	8765.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38395.3	0.0	38395.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	47161.0	0.0	47161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.7	1.6
10°-20°	2004.0	4.2
20°-30°	3304.0	7.0
30°-40°	4887.5	10.4
40°-50°	6821.9	14.5
50°-60°	8882.3	18.8
60°-70°	10916.1	23.1
70°-80°	8556.9	18.1
80°-90°	1035.5	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47161.0	100.0
0°-180°	47161.0	100.0

Coefficient of Utilization

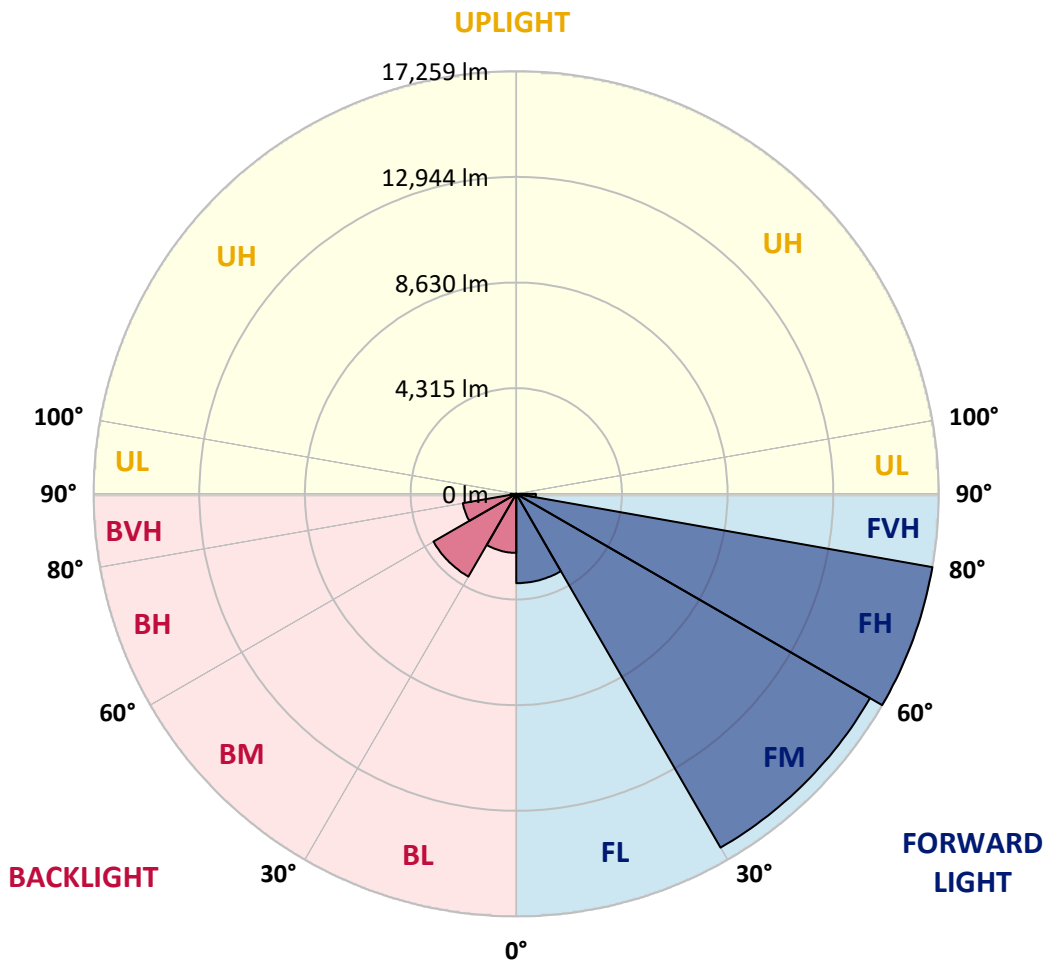


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3648.9	7.7			
FM (30°-60°)	16686.5	35.4			
FH (60°-80°)	17259.3	36.6			G5
FVH (80°-90°)	800.6	1.7			G5
BL (0°-30°)	2411.8	5.1	B3/2500		
BM (30°-60°)	3905.2	8.3	B3/5000		
BH (60°-80°)	2213.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	234.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





REPORT NUMBER: P317794

CATALOG NUMBER: GAN-SAOA-750-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2
2.5°	8047.4	8028.3	8052.2	8085.6	8122.3	8171.6	8200.3	8213.1	8262.4	8281.5	8323.0
5°	7674.6	7665.1	7704.9	7762.3	7843.5	7958.2	8050.6	8068.1	8198.7	8291.1	8375.5
7.5°	7403.9	7403.9	7450.0	7518.5	7609.3	7763.9	7894.5	7918.4	8139.8	8338.9	8495.0
10°	7188.8	7196.8	7250.9	7332.2	7438.9	7603.0	7776.6	7803.7	8123.9	8450.4	8698.9
12.5°	7045.4	7064.6	7113.9	7187.2	7319.4	7518.5	7738.4	7775.0	8157.3	8609.7	8944.2
15°	7136.2	7168.1	7172.9	7203.1	7276.4	7493.1	7760.7	7798.9	8229.0	8772.2	9223.0
17.5°	7534.5	7545.6	7496.2	7432.5	7397.5	7536.1	7827.6	7867.4	8315.0	8933.0	9490.6
20°	8139.8	8133.4	8026.7	7854.6	7676.2	7698.5	7937.5	7978.9	8431.3	9074.8	9758.2
22.5°	8904.4	8882.1	8718.0	8401.0	8096.8	7969.3	8130.2	8165.3	8606.5	9277.1	10044.9
25°	9831.5	9782.1	9565.4	9140.1	8692.5	8364.4	8420.1	8453.6	8861.4	9503.3	10307.7
27.5°	10809.5	10760.1	10484.5	9970.0	9374.3	8863.0	8820.0	8848.6	9151.3	9670.6	10502.1
30°	11832.1	11779.6	11527.9	10951.3	10097.5	9379.1	9192.7	9203.8	9355.2	9761.4	10661.4
32.5°	12859.6	12810.2	12528.3	11859.2	10882.8	9933.4	9461.9	9447.6	9477.8	9855.3	10841.4
35°	13901.3	13920.5	13590.7	12850.0	11752.5	10549.9	9780.5	9750.2	9683.3	10048.1	11096.2
37.5°	15016.4	15003.6	14576.7	13802.6	12662.1	11218.9	10237.6	10232.9	10001.9	10412.9	11496.0
40°	15761.9	15769.8	15510.2	14777.4	13581.2	11959.6	10823.8	10812.7	10510.0	10959.2	12020.1
42.5°	16053.4	16105.9	16172.8	15707.7	14543.3	12818.2	11523.1	11507.2	11218.9	11742.9	12636.6
45°	16074.1	16179.2	16593.4	16534.4	15518.1	13801.0	12416.7	12372.1	12165.1	12784.7	13372.5
47.5°	15895.7	16004.0	16692.1	17026.6	16389.5	14838.0	13461.7	13426.7	13248.2	14087.7	14169.0
50°	15505.4	15608.9	16488.2	17267.2	17106.3	15835.1	14665.9	14573.6	14478.0	15593.0	15080.1
52.5°	14774.3	14973.4	16215.8	17324.5	17534.8	16720.8	15932.3	15871.8	15924.3	17181.1	15992.8
55°	13042.8	13265.8	15513.4	17276.7	17851.8	17464.7	17198.7	17195.5	17467.9	18847.3	16972.5
57.5°	12072.7	12230.4	14082.9	17195.5	18227.7	18203.8	18452.3	18482.6	19013.0	20661.7	17998.3
60°	11524.7	11690.4	13358.2	16894.4	18810.7	19159.5	19731.4	19791.9	20583.6	22670.3	19232.8
62.5°	11026.1	11207.7	12909.0	16281.2	19497.2	20526.3	21263.8	21317.9	22246.6	24734.7	20425.9
65°	10173.9	10379.4	12251.1	15878.1	20121.7	22308.7	23211.9	23248.5	24156.5	26897.9	21338.6
67.5°	8969.7	9157.7	11010.2	14987.7	20583.6	24473.5	25802.0	25822.7	26050.5	28425.5	21805.4
70°	7563.1	7634.8	9242.1	13149.5	20037.2	26498.1	28640.6	28645.3	27777.2	29403.6	21728.9
72.5°	5314.0	5482.8	6709.3	9954.1	17219.4	26251.2	30114.0	30168.2	28580.0	28909.8	19992.6
75°	3259.1	3437.5	4208.5	6032.4	10924.2	20645.7	27823.4	28199.3	27074.7	25776.5	16332.1
77.5°	2179.1	2246.0	2746.2	3517.1	4949.2	11878.3	21391.2	22098.5	22491.9	18798.0	10444.7
80°	1215.4	1342.8	1820.7	2185.5	2201.4	4719.8	12826.1	12991.8	12513.9	7485.1	3222.5
82.5°	643.5	713.6	1215.4	1283.9	1201.1	1580.2	4780.3	4785.1	3998.2	2007.1	957.3
85°	498.6	557.5	833.1	783.7	613.3	700.9	1577.0	1663.0	1360.3	821.9	312.2
87.5°	248.5	309.0	565.5	497.0	240.5	200.7	563.9	602.1	536.8	321.8	113.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2	8318.2
2.5°	8338.9	8353.2	8370.8	8351.6	8345.3	8319.8	8276.8	8267.2	8244.9	8246.5	8259.2
5°	8412.2	8436.1	8426.5	8353.2	8265.6	8143.0	8015.5	7907.2	7835.5	7830.8	7826.0
7.5°	8552.3	8568.3	8493.4	8284.7	8039.4	7755.9	7488.3	7254.1	7112.4	7077.3	7069.3
10°	8772.2	8769.0	8563.5	8143.0	7653.9	7147.4	6717.3	6392.4	6202.8	6147.0	6132.7
12.5°	9017.5	8980.8	8587.4	7884.9	7109.2	6406.7	5861.9	5500.3	5302.8	5239.1	5223.2
15°	9270.7	9180.0	8528.5	7499.4	6440.1	5608.6	5036.8	4702.3	4595.6	4560.5	4554.1
17.5°	9506.5	9331.3	8359.6	6977.0	5677.1	4813.8	4367.8	4234.0	4259.4	4305.6	4307.2
20°	9737.5	9433.2	8088.8	6317.5	4872.7	4159.1	4007.8	4106.5	4227.6	4321.6	4334.3
22.5°	9965.3	9504.9	7740.0	5556.1	4152.7	3791.1	3897.9	4077.9	4216.4	4318.4	4335.9
25°	10156.4	9522.4	7258.9	4743.7	3652.5	3652.5	3845.3	4015.7	4152.7	4253.1	4270.6
27.5°	10226.5	9404.6	6580.3	3991.8	3400.9	3588.8	3772.0	3913.8	4030.1	4136.8	4155.9
30°	10253.6	9186.3	5796.6	3388.1	3297.3	3520.3	3673.3	3794.3	3904.2	4004.6	4022.1
32.5°	10258.4	8923.5	4965.1	3045.6	3225.6	3448.7	3550.6	3657.3	3775.2	3815.0	3821.4
35°	10288.6	8612.9	4089.0	2870.4	3158.7	3381.8	3463.0	3539.5	3348.3	3362.6	3375.4
37.5°	10376.2	8305.4	3356.3	2771.7	3115.7	3346.7	3443.9	3166.7	3017.0	2981.9	2977.2
40°	10540.3	7977.3	2813.1	2692.0	3099.8	3364.2	3321.2	2956.4	2698.4	2505.7	2477.0
42.5°	10768.1	7623.7	2465.8	2639.5	3111.0	3448.7	3150.8	2754.1	2325.7	2201.4	2185.5
45°	11024.5	7252.5	2277.9	2602.8	3149.2	3514.0	3115.7	2484.9	2152.0	2058.0	2050.1
47.5°	11273.0	6798.5	2180.7	2586.9	3201.8	3461.4	2967.6	2402.1	2069.2	2019.8	2024.6
50°	11558.2	6389.2	2121.8	2569.4	3247.9	3427.9	2800.3	2359.1	2037.3	2097.9	2161.6
52.5°	11798.7	5965.5	2069.2	2534.3	3265.5	3369.0	2757.3	2367.1	2037.3	2153.6	2214.1
55°	12083.8	5645.3	2008.7	2461.0	3232.0	3201.8	2727.1	2414.9	2061.2	1988.0	1994.3
57.5°	12451.8	5540.1	1941.8	2346.4	3120.5	2958.0	2712.7	2461.0	2046.9	2000.7	2016.6
60°	12961.5	5651.7	1914.7	2196.6	2946.9	2766.9	2714.3	2437.2	1946.5	1866.9	1868.5
62.5°	13447.4	5775.9	1913.1	2102.6	2733.4	2596.4	2677.7	2359.1	1895.6	1849.4	1866.9
65°	13606.7	5650.1	1836.6	1997.5	2492.9	2392.6	2610.8	2276.3	1857.3	1787.2	1784.1
67.5°	13393.2	5259.8	1682.1	1827.1	2217.3	2155.2	2523.2	2177.5	1796.8	1739.5	1729.9
70°	12759.2	4388.5	1491.0	1602.5	1903.5	1887.6	2384.6	2062.8	1715.6	1666.2	1624.8
72.5°	11053.2	3126.9	1256.8	1333.3	1549.9	1600.9	2193.4	1913.1	1600.9	1494.2	1430.4
75°	9078.0	2314.5	1032.2	1048.1	1177.2	1315.7	1930.6	1737.9	1465.5	1283.9	1234.5
77.5°	5559.3	1416.1	821.9	828.3	844.2	1049.7	1589.7	1541.9	1293.4	1070.4	1035.4
80°	1800.0	772.6	594.2	624.4	576.6	769.4	1229.7	1312.6	1110.3	895.2	857.0
82.5°	685.0	450.8	401.4	422.1	399.8	516.1	896.8	1051.3	909.6	735.9	598.9
85°	331.3	254.9	237.3	266.0	246.9	264.4	573.4	774.2	689.7	479.5	446.0
87.5°	117.9	113.1	90.8	122.7	105.1	94.0	175.2	390.3	455.6	329.7	294.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)